DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citize	nship are
as stated below next to my name; that I verily believe I am the original, first and sole inventor (if	only one
name is listed below) or a joint inventor (if plural names are listed below) of the subject matter and for which a patent is sought in the application entitled: "IMMUNOLOGICALLY ACTIVE POLYPEPTI	claimed
and for which a patent is sought in the application entitled: "I ANDROLOGICALLY ACTIVE POLYPEPTI	DE2 MILH
ALTERED TOXICITY USEFUL FOR THE PREPARATION OF AN ANTIPERTUSSIS VACCINE"	

which application is: the attached application (for original application)	y application Serial No. 265,742 filed November 1, 1988, and amended on	
that I have reviewed the above-it	(for declaration not accompanying application) dentified application and understand the contents thereof, including the declaration are supplied by any approximant referred to above: that I acknowledge my du	g th

that I have reviewed the above-identified application and understand the contents thereof, including the specification and claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56(a), i.e. such information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent; that I hereby claim foreign priority benefits under Title 35, United States Code §119, §172 or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

Application Number Country Filing Date Priority Claimed (yes of no)

22481-A/87 ITALY November 2, 1987 YES

I hereby claim the benefit of Title 35, United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56 (a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No. Filing Date Status (patented, pending, abandoned)

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macheak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21,092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24,625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, and John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Reg. No. 26,577, Sheldon I. Landsman, Reg. No. 25,430, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 1776 K Street, N.W., Washington, D.C. 20006.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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BEST AVAILABLE COPY Dec-23-03 12:08pm From-Intellectual Property Department 510-854-4879 T-751 P.003/003 F-817 Rino RAPPUOLI November 28, 1988 Third Inventor_ Middle Initial FI/Name Residence QUERCEGROSSA -Signature. Via Calamandrei, 35 - 53010 QUERCEGROSSA -SIENA - ITALY Post Office Address Cidzenship Italian SIENA - ITALY Fourth Inventor Las Name Middle Initial First Name Signature___ Post Office Address Citizenship _____ Fifth Inventor Last Name Middle Initial First Name Signature..... Post Office Address Citizenship _____ Sixth Inventor ____ Middle Initial First Name Signature..... ___ Post Office Address ___ Citizenship ____

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Date ______ Eighth Inventor _____ First Name Middle Initial East Name

Residence ______ Signature ______ Post Office Address ______

(Supply similar information for ninth and subsequent joint inventors.)

Citizenship ---